

**District I**

1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720

**District II**

811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720

**District III**

1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170

**District IV**

1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

**State of New Mexico**  
**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

Form C-101  
August 1, 2011

Permit 306586

**APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE**

1. Operator Name and Address MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240		2. OGRID Number 228937
		3. API Number 30-025-49719
4. Property Code 332090	5. Property Name MONIKA 14 17S 37E	6. Well No. 001

**7. Surface Location**

UL - Lot G	Section 14	Township 17S	Range 37E	Lot Idn G	Feet From 2128	N/S Line N	Feet From 2321	E/W Line E	County Lea
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**8. Proposed Bottom Hole Location**

UL - Lot G	Section 14	Township 17S	Range 37E	Lot Idn G	Feet From 1376	N/S Line N	Feet From 1761	E/W Line E	County Lea
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**9. Pool Information**

HUMBLE CITY;STRAWN, SOUTH	33500
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**Additional Well Information**

11. Work Type New Well	12. Well Type OIL	13. Cable/Rotary	14. Lease Type Private	15. Ground Level Elevation 3738
16. Multiple N	17. Proposed Depth 11901	18. Formation Strawn	19. Contractor	20. Spud Date 2/1/2022
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

☒ We will be using a closed-loop system in lieu of lined pits

**21. Proposed Casing and Cement Program**

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	14.75	9.625	36	2212	950	0
Prod	8.75	5.5	17	11901	2320	0

**Casing/Cement Program: Additional Comments**

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**22. Proposed Blowout Prevention Program**

Type	Working Pressure	Test Pressure	Manufacturer
Annular	5000	3000	Cameron
Double Ram	10000	5000	Cameron
Pipe	10000	5000	Cameron

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief.  
I further certify I have complied with 19.15.14.9 (A) NMAC ☐ and/or 19.15.14.9 (B) NMAC ☒ if applicable.

Signature:

Printed Name: Electronically filed by Brett A Jennings

Title: Regulatory Analyst

Email Address: brett.jennings@matadorresources.com

Date: 1/12/2022

Phone: 972-629-2160

**OIL CONSERVATION DIVISION**

Approved By: Paul F Kautz

Title: Geologist

Approved Date: 1/13/2022

Expiration Date: 1/13/2024

Conditions of Approval Attached

DISTRICT I  
1625 N. FRENCH DR., HOBBS, NM 88240  
Phone: (575) 393-6161 Fax: (575) 393-0720

DISTRICT II  
511 S. FIRST ST., ARTESIA, NM 88210  
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DISTRICT III  
1000 RIO BRAZOS RD., AZTEC, NM 87410  
Phone: (505) 334-6178 Fax: (505) 334-6170

DISTRICT IV  
1220 S. ST. FRANCIS DR., SANTA FE, NM 87505  
Phone: (505) 478-3460 Fax: (505) 478-3462

State of New Mexico  
Energy, Minerals & Natural Resources Department  
**OIL CONSERVATION DIVISION**  
1220 SOUTH ST. FRANCIS DR.  
Santa Fe, New Mexico 87505

Form C-102  
Revised August 1, 2011  
Submit one copy to appropriate  
District Office

☐ AMENDED REPORT

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

API Number <b>30-025-49719</b>	Pool Code <b>33500</b>	Pool Name <b>HUMBLE CITY; STRAWN, SOUTH</b>
Property Code <b>332090</b>	Property Name <b>MONIKA 14-17S-37E</b>	Well Number <b>1</b>
OGRID No. <b>228937</b>	Operator Name <b>MATADOR PRODUCTION COMPANY</b>	Elevation <b>3738.5'</b>

**Surface Location**

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	14	17-S	37-E		2128	NORTH	2321	EAST	LEA

**Bottom Hole Location If Different From Surface**

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	14	17-S	37-E		1376	NORTH	1761	EAST	LEA
Dedicated Acres <b>80</b>	Joint or Infill	Consolidation Code	Order No.						

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED  
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

<p style="text-align: center;">SPACING UNIT</p>	<p style="text-align: center;"><b>OPERATOR CERTIFICATION</b></p> <p><i>I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i></p> <p style="text-align: right;"><i>Nicholas Weeks</i>      01/12/2022</p> <p>Signature      Date</p> <p><b>Nicholas A. Weeks</b></p> <p>Printed Name</p> <p>nweeks@matadorresources.com</p> <p>E-mail Address</p> <p style="text-align: center;"><b>SURVEYOR CERTIFICATION</b></p> <p><i>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</i></p> <p style="text-align: center;">DECEMBER 14, 2021</p> <p style="text-align: center;">Date of Survey</p> <p>Signature &amp; Seal of Professional Surveyor</p> <div style="text-align: center;"> </div> <p style="text-align: right;"><i>Chad Harcrow</i>      12/20/21</p> <p>Certificate No. CHAD HARCROW      17777</p> <p>W.O. # 21-1044      DRAWN BY: SP</p>
<p>NAD 83 NME GRID AZ. - 36°04'17" HORZ. DIST. - 935.0'</p> <p>NAD 27 NME GRID AZ. - 36°04'21" HORZ. DIST. - 935.0'</p>	<p>NAD 83 NME SURFACE LOCATION Y=669663.7 N X=841779.9 E LAT.=32.836044° N LONG.=103.220613° W</p> <p>NAD 83 NME SURFACE LOCATION Y=669725.8 N X=882958.5 E LAT.=32.836159° N LONG.=103.221105° W</p>
<p>NAD 27 NME PROPOSED BOTTOM HOLE LOCATION Y=670419.4 N X=842330.4 E LAT.=32.838105° N LONG.=103.218795° W</p>	<p>NAD 83 NME PROPOSED BOTTOM HOLE LOCATION Y=670481.5 N X=883509.0 E LAT.=32.838220° N LONG.=103.219287° W</p>

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**State of New Mexico**  
**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

Form APD Conditions

Permit 306586

**PERMIT CONDITIONS OF APPROVAL**

Operator Name and Address: MATADOR PRODUCTION COMPANY [228937] One Lincoln Centre Dallas, TX 75240	API Number: 30-025-49719
	Well: MONIKA 14 17S 37E #001

OCD Reviewer	Condition
pkautz	Notify OCD 24 hours prior to casing & cement
pkautz	Will require a File As Drilled C-102 and a Directional Survey with the C-104
pkautz	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string
pkautz	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system
pkautz	SURFACE & PRODUCTION CASING - Cement must circulate to surface
pkautz	The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud

State of New Mexico  
Energy, Minerals and Natural Resources Department

Submit Electronically  
Via E-permitting

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

## NATURAL GAS MANAGEMENT PLAN

This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.

### Section 1 – Plan Description Effective May 25, 2021

**I. Operator:** Matador Production Company **OGRID:** 228937 **Date:** 1-6-22

**II. Type:** ☒ Original ☐ Amendment due to ☐ 19.15.27.9.D(6)(a) NMAC ☐ 19.15.27.9.D(6)(b) NMAC ☐ Other.

If Other, please describe: \_\_\_\_\_

**III. Well(s):** Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
Monika 14-17S-37E #1	TBD	UL-G Sec 14 T17S R37E	2128' FNL 2321' FEL	300	600	50

**IV. Central Delivery Point Name:** Monika TB [See 19.15.27.9(D)(1) NMAC]

**V. Anticipated Schedule:** Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
Monika 14-17S-37E #1	TBD	2-20-2022	3-10-2022	3-15-2022	3-25-2022	3-25-2022

**VI. Separation Equipment:** ☒ Attach a complete description of how Operator will size separation equipment to optimize gas capture.

**VII. Operational Practices:** ☒ Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.

**VIII. Best Management Practices:** ☒ Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

**Section 2 – Enhanced Plan****EFFECTIVE APRIL 1, 2022**

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

☒ Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

**IX. Anticipated Natural Gas Production:**

Well	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF

**X. Natural Gas Gathering System (NGGS):**

Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in

**XI. Map.** ☐ Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

**XII. Line Capacity.** The natural gas gathering system ☐ will ☐ will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

**XIII. Line Pressure.** Operator ☐ does ☐ does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).

☐ Attach Operator's plan to manage production in response to the increased line pressure.

**XIV. Confidentiality:** ☐ Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

### **Section 3 - Certifications**

**Effective May 25, 2021**

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

☒ Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

☐ Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system.

*If Operator checks this box, Operator will select one of the following:*

**Well Shut-In.** ☐ Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

**Venting and Flaring Plan.** ☐ Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- (a) power generation on lease;
- (b) power generation for grid;
- (c) compression on lease;
- (d) liquids removal on lease;
- (e) reinjection for underground storage;
- (f) reinjection for temporary storage;
- (g) reinjection for enhanced oil recovery;
- (h) fuel cell production; and
- (i) other alternative beneficial uses approved by the division.

### **Section 4 - Notices**


1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or

(b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.

2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature: 
Printed Name: Ben Peterson
Title: Staff Production Engineer
E-mail Address: <a href="mailto:bpeterson@matadorresources.com">bpeterson@matadorresources.com</a>
Date: 1-6-22
Phone: (972) 371-5427
<b>OIL CONSERVATION DIVISION</b> (Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:



## **Addendum to Natural Gas Management Plan for Matador's**

### **Monika 14-17S-37E #1**

#### **VI. Separation Equipment**

Flow from the well will be routed via a flowline to a 72"x20' three phase heater treater dedicated to the well. The heater treater is sized with input from BRE ProMax and API 12J. Expected production from the Monika 14-17S-37E #1 well is approximately 600 mcf/d, 300 bopd, and 50 bwpd. Liquid retention times at expected maximum rates will be >3 minutes. Gas will be routed from the heater treater to sales. The gas from the heater treater(s) could either be sent to sales or routed to a compressor if the sales line pressure is higher than the MAWP of the heater treater (125 psi). From the heater treater, hydrocarbon liquid and water will be routed to the tanks where vapor is compressed by a VRU if technically feasible to either sales or a compressor if the sales line pressure is higher than the VRU's maximum discharge pressure (~150 psi). Therefore, Matador has sized our separation equipment to optimize gas capture and our separation equipment is of sufficient size to handle the expected volumes of gas.

#### **VII. Operation Practices**

Although not a complete recitation of all our efforts to comply with a subsection A through F of 19.15.27.8 NMAC, a summary is as follows. During drilling, Matador will have a properly sized flare stack at least 100 feet from the nearest surface hole. During initial flowback we will route the flowback fluids into completion or storage tanks and, to the extent possible, flare rather than vent any gas. We will commence operation of the heater treater as soon as technically feasible, and have instructed our team that we want to connect the gas to sales as soon as possible but not later than 30 days after initial flowback.

Regarding production operations, we have designed our production facilities to be compliant with the requirements of Part E of 19.15.27.8 NMAC. We will instruct our team to perform the AVOs on the frequency required under the rules. While the well is producing, we will take steps to minimize flaring during maintenance, as set forth below, and we have a process in place for the measuring of any flared gas and the reporting of any reportable flaring events.

#### **VII. Best Management Practices**

Steps are taken to minimize venting during active or planned maintenance when technically feasible including:

- Isolating the affected component and reducing pressure through process piping
- Blowing down the equipment being maintained to a control device
- Performing preventative maintenance and minimizing the duration of maintenance activities
- Shutting in sources of supply as possible
- Other steps that are available depending on the maintenance being performed



# **Matador Production Company**

**Antelope Ridge**

**Monika**

**Monika #1**

**Wellbore #1**

**Plan: Plan #1**

## **Standard Planning Report**

**20 December, 2021**

## Planning Report

<b>Database:</b>	EDM 5000.14 Server	<b>Local Co-ordinate Reference:</b>	Well Monika #1
<b>Company:</b>	Matador Production Company	<b>TVD Reference:</b>	KB @ 3767.0usft
<b>Project:</b>	Antelope Ridge	<b>MD Reference:</b>	KB @ 3767.0usft
<b>Site:</b>	Monika	<b>North Reference:</b>	Grid
<b>Well:</b>	Monika #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #1		

<b>Project</b>	Antelope Ridge		
<b>Map System:</b>	US State Plane 1927 (Exact solution)	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	NAD 1927 (NADCON CONUS)		
<b>Map Zone:</b>	New Mexico East 3001		Using geodetic scale factor

Site		Monika			
Site Position: From:		Northing:	669,663.68 usft	Latitude:	32° 50' 9.758 N
	Lat/Long	Easting:	841,779.89 usft	Longitude:	103° 13' 14.207 W
	Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:

Well	Monika #1					
Well Position	+N-S	0.0 usft	Northing:	669,663.68 usft	Latitude:	32° 50' 9.758 N
	+E-W	0.0 usft	Easting:	841,779.89 usft	Longitude:	103° 13' 14.207 W
Position Uncertainty		0.0 usft	Wellhead Elevation:		Ground Level:	3,738.5 usft

<b>Wellbore</b>	Wellbore #1				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF200510	12/31/2009	7.63	60.87	49,197.82145357

<b>Design</b>	Plan #1			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PROTOTYPE	<b>Tie On Depth:</b>	0.0
<b>Vertical Section:</b>	<b>Depth From (TVD) (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Direction (°)</b>
	0.0	0.0	0.0	0.00

<b>Plan Survey Tool Program</b>	<b>Date</b>	12/20/2021		
<b>Depth From (usft)</b>	<b>Depth To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Remarks</b>
1	0.0	11,901.1	Plan #1 (Wellbore #1)	MWD
				OWSG MWD - Standard

<b>Plan Sections</b>										
<b>Measured Depth (usft)</b>	<b>Inclination (°)</b>	<b>Azimuth (°)</b>	<b>Vertical Depth (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Dogleg Rate (°/100usft)</b>	<b>Build Rate (°/100usft)</b>	<b>Turn Rate (°/100usft)</b>	<b>TFO (°)</b>	<b>Target</b>
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,042.3	6.42	36.07	3,040.9	29.1	21.2	1.00	1.00	0.00	36.07	
10,758.9	6.42	36.07	10,709.1	726.8	529.4	0.00	0.00	0.00	0.00	
11,401.1	0.00	0.00	11,350.0	755.8	550.6	1.00	-1.00	0.00	180.00	
11,901.1	0.00	0.00	11,850.0	755.8	550.6	0.00	0.00	0.00	0.00	BHL - Monika #1

## Planning Report

<b>Database:</b>	EDM 5000.14 Server	<b>Local Co-ordinate Reference:</b>	Well Monika #1
<b>Company:</b>	Matador Production Company	<b>TVD Reference:</b>	KB @ 3767.0usft
<b>Project:</b>	Antelope Ridge	<b>MD Reference:</b>	KB @ 3767.0usft
<b>Site:</b>	Monika	<b>North Reference:</b>	Grid
<b>Well:</b>	Monika #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	1.00	36.07	2,500.0	0.7	0.5	0.7	1.00	1.00	0.00
2,600.0	2.00	36.07	2,600.0	2.8	2.1	2.8	1.00	1.00	0.00
2,700.0	3.00	36.07	2,699.9	6.3	4.6	6.3	1.00	1.00	0.00
2,800.0	4.00	36.07	2,799.7	11.3	8.2	11.3	1.00	1.00	0.00
2,900.0	5.00	36.07	2,899.4	17.6	12.8	17.6	1.00	1.00	0.00
3,000.0	6.00	36.07	2,998.9	25.4	18.5	25.4	1.00	1.00	0.00
3,042.3	6.42	36.07	3,040.9	29.1	21.2	29.1	1.00	1.00	0.00
3,100.0	6.42	36.07	3,098.3	34.3	25.0	34.3	0.00	0.00	0.00
3,200.0	6.42	36.07	3,197.7	43.3	31.6	43.3	0.00	0.00	0.00
3,300.0	6.42	36.07	3,297.0	52.4	38.1	52.4	0.00	0.00	0.00
3,400.0	6.42	36.07	3,396.4	61.4	44.7	61.4	0.00	0.00	0.00
3,500.0	6.42	36.07	3,495.8	70.5	51.3	70.5	0.00	0.00	0.00
3,600.0	6.42	36.07	3,595.2	79.5	57.9	79.5	0.00	0.00	0.00
3,700.0	6.42	36.07	3,694.5	88.5	64.5	88.5	0.00	0.00	0.00
3,800.0	6.42	36.07	3,793.9	97.6	71.1	97.6	0.00	0.00	0.00
3,900.0	6.42	36.07	3,893.3	106.6	77.7	106.6	0.00	0.00	0.00
4,000.0	6.42	36.07	3,992.6	115.7	84.3	115.7	0.00	0.00	0.00
4,100.0	6.42	36.07	4,092.0	124.7	90.8	124.7	0.00	0.00	0.00
4,200.0	6.42	36.07	4,191.4	133.7	97.4	133.7	0.00	0.00	0.00
4,300.0	6.42	36.07	4,290.8	142.8	104.0	142.8	0.00	0.00	0.00
4,400.0	6.42	36.07	4,390.1	151.8	110.6	151.8	0.00	0.00	0.00
4,500.0	6.42	36.07	4,489.5	160.9	117.2	160.9	0.00	0.00	0.00
4,600.0	6.42	36.07	4,588.9	169.9	123.8	169.9	0.00	0.00	0.00
4,700.0	6.42	36.07	4,688.3	178.9	130.4	178.9	0.00	0.00	0.00
4,800.0	6.42	36.07	4,787.6	188.0	136.9	188.0	0.00	0.00	0.00
4,900.0	6.42	36.07	4,887.0	197.0	143.5	197.0	0.00	0.00	0.00
5,000.0	6.42	36.07	4,986.4	206.1	150.1	206.1	0.00	0.00	0.00
5,100.0	6.42	36.07	5,085.7	215.1	156.7	215.1	0.00	0.00	0.00
5,200.0	6.42	36.07	5,185.1	224.2	163.3	224.2	0.00	0.00	0.00

## Planning Report

<b>Database:</b>	EDM 5000.14 Server	<b>Local Co-ordinate Reference:</b>	Well Monika #1
<b>Company:</b>	Matador Production Company	<b>TVD Reference:</b>	KB @ 3767.0usft
<b>Project:</b>	Antelope Ridge	<b>MD Reference:</b>	KB @ 3767.0usft
<b>Site:</b>	Monika	<b>North Reference:</b>	Grid
<b>Well:</b>	Monika #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,300.0	6.42	36.07	5,284.5	233.2	169.9	233.2	0.00	0.00	0.00
5,400.0	6.42	36.07	5,383.9	242.2	176.5	242.2	0.00	0.00	0.00
5,500.0	6.42	36.07	5,483.2	251.3	183.0	251.3	0.00	0.00	0.00
5,600.0	6.42	36.07	5,582.6	260.3	189.6	260.3	0.00	0.00	0.00
5,700.0	6.42	36.07	5,682.0	269.4	196.2	269.4	0.00	0.00	0.00
5,800.0	6.42	36.07	5,781.3	278.4	202.8	278.4	0.00	0.00	0.00
5,900.0	6.42	36.07	5,880.7	287.4	209.4	287.4	0.00	0.00	0.00
6,000.0	6.42	36.07	5,980.1	296.5	216.0	296.5	0.00	0.00	0.00
6,100.0	6.42	36.07	6,079.5	305.5	222.6	305.5	0.00	0.00	0.00
6,200.0	6.42	36.07	6,178.8	314.6	229.1	314.6	0.00	0.00	0.00
6,300.0	6.42	36.07	6,278.2	323.6	235.7	323.6	0.00	0.00	0.00
6,400.0	6.42	36.07	6,377.6	332.7	242.3	332.7	0.00	0.00	0.00
6,500.0	6.42	36.07	6,477.0	341.7	248.9	341.7	0.00	0.00	0.00
6,600.0	6.42	36.07	6,576.3	350.7	255.5	350.7	0.00	0.00	0.00
6,700.0	6.42	36.07	6,675.7	359.8	262.1	359.8	0.00	0.00	0.00
6,800.0	6.42	36.07	6,775.1	368.8	268.7	368.8	0.00	0.00	0.00
6,900.0	6.42	36.07	6,874.4	377.9	275.3	377.9	0.00	0.00	0.00
7,000.0	6.42	36.07	6,973.8	386.9	281.8	386.9	0.00	0.00	0.00
7,100.0	6.42	36.07	7,073.2	395.9	288.4	395.9	0.00	0.00	0.00
7,200.0	6.42	36.07	7,172.6	405.0	295.0	405.0	0.00	0.00	0.00
7,300.0	6.42	36.07	7,271.9	414.0	301.6	414.0	0.00	0.00	0.00
7,400.0	6.42	36.07	7,371.3	423.1	308.2	423.1	0.00	0.00	0.00
7,500.0	6.42	36.07	7,470.7	432.1	314.8	432.1	0.00	0.00	0.00
7,600.0	6.42	36.07	7,570.1	441.1	321.4	441.1	0.00	0.00	0.00
7,700.0	6.42	36.07	7,669.4	450.2	327.9	450.2	0.00	0.00	0.00
7,800.0	6.42	36.07	7,768.8	459.2	334.5	459.2	0.00	0.00	0.00
7,900.0	6.42	36.07	7,868.2	468.3	341.1	468.3	0.00	0.00	0.00
8,000.0	6.42	36.07	7,967.5	477.3	347.7	477.3	0.00	0.00	0.00
8,100.0	6.42	36.07	8,066.9	486.4	354.3	486.4	0.00	0.00	0.00
8,200.0	6.42	36.07	8,166.3	495.4	360.9	495.4	0.00	0.00	0.00
8,300.0	6.42	36.07	8,265.7	504.4	367.5	504.4	0.00	0.00	0.00
8,400.0	6.42	36.07	8,365.0	513.5	374.0	513.5	0.00	0.00	0.00
8,500.0	6.42	36.07	8,464.4	522.5	380.6	522.5	0.00	0.00	0.00
8,600.0	6.42	36.07	8,563.8	531.6	387.2	531.6	0.00	0.00	0.00
8,700.0	6.42	36.07	8,663.1	540.6	393.8	540.6	0.00	0.00	0.00
8,800.0	6.42	36.07	8,762.5	549.6	400.4	549.6	0.00	0.00	0.00
8,900.0	6.42	36.07	8,861.9	558.7	407.0	558.7	0.00	0.00	0.00
9,000.0	6.42	36.07	8,961.3	567.7	413.6	567.7	0.00	0.00	0.00
9,100.0	6.42	36.07	9,060.6	576.8	420.2	576.8	0.00	0.00	0.00
9,200.0	6.42	36.07	9,160.0	585.8	426.7	585.8	0.00	0.00	0.00
9,300.0	6.42	36.07	9,259.4	594.9	433.3	594.9	0.00	0.00	0.00
9,400.0	6.42	36.07	9,358.8	603.9	439.9	603.9	0.00	0.00	0.00
9,500.0	6.42	36.07	9,458.1	612.9	446.5	612.9	0.00	0.00	0.00
9,600.0	6.42	36.07	9,557.5	622.0	453.1	622.0	0.00	0.00	0.00
9,700.0	6.42	36.07	9,656.9	631.0	459.7	631.0	0.00	0.00	0.00
9,800.0	6.42	36.07	9,756.2	640.1	466.3	640.1	0.00	0.00	0.00
9,900.0	6.42	36.07	9,855.6	649.1	472.8	649.1	0.00	0.00	0.00
10,000.0	6.42	36.07	9,955.0	658.1	479.4	658.1	0.00	0.00	0.00
10,100.0	6.42	36.07	10,054.4	667.2	486.0	667.2	0.00	0.00	0.00
10,200.0	6.42	36.07	10,153.7	676.2	492.6	676.2	0.00	0.00	0.00
10,300.0	6.42	36.07	10,253.1	685.3	499.2	685.3	0.00	0.00	0.00
10,400.0	6.42	36.07	10,352.5	694.3	505.8	694.3	0.00	0.00	0.00
10,500.0	6.42	36.07	10,451.9	703.3	512.4	703.3	0.00	0.00	0.00
10,600.0	6.42	36.07	10,551.2	712.4	518.9	712.4	0.00	0.00	0.00

## Planning Report

<b>Database:</b>	EDM 5000.14 Server	<b>Local Co-ordinate Reference:</b>	Well Monika #1
<b>Company:</b>	Matador Production Company	<b>TVD Reference:</b>	KB @ 3767.0usft
<b>Project:</b>	Antelope Ridge	<b>MD Reference:</b>	KB @ 3767.0usft
<b>Site:</b>	Monika	<b>North Reference:</b>	Grid
<b>Well:</b>	Monika #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
10,700.0	6.42	36.07	10,650.6	721.4	525.5	721.4	0.00	0.00	0.00	
10,758.9	6.42	36.07	10,709.1	726.8	529.4	726.8	0.00	0.00	0.00	
10,800.0	6.01	36.07	10,750.0	730.4	532.0	730.4	1.00	-1.00	0.00	
10,900.0	5.01	36.07	10,849.5	738.1	537.7	738.1	1.00	-1.00	0.00	
11,000.0	4.01	36.07	10,949.2	744.5	542.3	744.5	1.00	-1.00	0.00	
11,100.0	3.01	36.07	11,049.0	749.4	545.9	749.4	1.00	-1.00	0.00	
11,200.0	2.01	36.07	11,148.9	753.0	548.5	753.0	1.00	-1.00	0.00	
11,300.0	1.01	36.07	11,248.9	755.1	550.1	755.1	1.00	-1.00	0.00	
11,400.0	0.01	36.07	11,348.9	755.8	550.6	755.8	1.00	-1.00	0.00	
11,401.1	0.00	0.00	11,350.0	755.8	550.6	755.8	1.00	-1.00	0.00	
11,500.0	0.00	0.00	11,448.9	755.8	550.6	755.8	0.00	0.00	0.00	
11,600.0	0.00	0.00	11,548.9	755.8	550.6	755.8	0.00	0.00	0.00	
11,700.0	0.00	0.00	11,648.9	755.8	550.6	755.8	0.00	0.00	0.00	
11,800.0	0.00	0.00	11,748.9	755.8	550.6	755.8	0.00	0.00	0.00	
11,900.0	0.00	0.00	11,848.9	755.8	550.6	755.8	0.00	0.00	0.00	
11,901.1	0.00	0.00	11,850.0	755.8	550.6	755.8	0.00	0.00	0.00	
BHL - Monika #1										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
- hit/miss target										
- Shape										
BHL - Monika #1	0.00	0.00	11,850.0	755.8	550.6	670,419.43	842,330.42	32° 50' 17.178 N	103° 13' 7.662 W	
- plan hits target center										
- Point										